

1 1. An isolated nucleic acid molecule selected from the group consisting
2 of:

3 a) a nucleic acid molecule having a nucleotide sequence which is at least 40%
4 identical to the nucleotide sequence of SEQ ID NO: 1, 2, 9, 10, 17, 18, 25, 26, 33, 34,
5 45, 46, 53, 54, 67, 68, 72, 73, or the nucleotide sequence of a cDNA of a clone
6 deposited as ATCC 207219, 207184, 207228, 207185, 207220, or 207221, or a
7 complement thereof;

8 b) a nucleic acid molecule comprising at least 15 nucleotide residues and
9 having a nucleotide sequence identical to at least 15 consecutive nucleotide residues of
10 SEQ ID NO: 1, 2, 9, 10, 17, 18, 25, 26, 33, 34, 45, 46, 53, 54, 67, 68, 72, 73, or the
11 nucleotide sequence of a cDNA of a clone deposited as ATCC 207219, 207184,
12 207228, 207185, 207220, or 207221, or a complement thereof;

13 c) a nucleic acid molecule comprising at least 15 nucleotide residues and
14 having a nucleotide sequence identical to at least 15 consecutive nucleotide residues of
15 SEQ ID NO: 1, 2, 9, 10, 17, 18, 25, 26, 33, 34, 45, 46, 53, 54, 67, 68, 72, 73, or the
16 nucleotide sequence of a cDNA of a clone deposited as ATCC 207219, 207184,
17 207228, 207185, 207220, or 207221, or a complement thereof;

18 d) a nucleic acid molecule which encodes a polypeptide comprising the amino
19 acid sequence of SEQ ID NO: 3-8, 11-16, 19-24, 27-32, 35-44, 47-52, 55-66, 69, 74, or
20 the amino acid sequence encoded by a cDNA of a clone deposited as ATCC 207219,
21 207184, 207228, 207185, 207220, or 207221, or a complement thereof;

22 e) a nucleic acid molecule which encodes a fragment of a polypeptide
23 comprising the amino acid sequence of SEQ ID NO: 3-8, 11-16, 19-24, 27-32, 35-44,
24 47-52, 55-66, 69, 74, or the amino acid sequence encoded by a cDNA of a clone
25 deposited as ATCC 207219, 207184, 207228, 207185, 207220, or 207221, wherein the
26 fragment comprises at least 8 consecutive amino acid residues of SEQ ID NO: 3-8, 11-
27 16, 19-24, 27-32, 35-44, 47-52, 55-66, 69, 74, or the amino acid sequence encoded by a
28 cDNA of a clone deposited as ATCC 207219, 207184, 207228, 207185, 207220, or
29 207221; and

30 f) a nucleic acid molecule which encodes a naturally occurring allelic variant of
31 a polypeptide comprising the amino acid sequence of SEQ ID NO: 3-8, 11-16, 19-24,
32 27-32, 35-44, 47-52, 55-66, 69, 74, wherein the nucleic acid molecule hybridizes to a
33 nucleic acid molecule consisting of the nucleotide sequence of SEQ ID NO: 1, 2, 9, 10,
34 17, 18, 25, 26, 33, 34, 45, 46, 53, 54, 67, 68, 72, 73, or the nucleotide sequence of a
35 cDNA of a clone deposited as ATCC 207219, 207184, 207228, 207185, 207220, or
36 207221, or a complement thereof under stringent conditions.

1 2. The isolated nucleic acid molecule of claim 1, which is selected from
2 the group consisting of:

3 a) a nucleic acid having the nucleotide sequence of SEQ ID NO: 1, 2, 9, 10, 17,
4 18, 25, 26, 33, 34, 45, 46, 53, 54, 67, 68, 72, 73, or the nucleotide sequence of a cDNA
5 of a clone deposited as ATCC 207219, 207184, 207228, 207185, 207220, or 207221,
6 or a complement thereof; and

7 b) a nucleic acid molecule which encodes a polypeptide having the amino acid
8 sequence of SEQ ID NO: 3-8, 11-16, 19-24, 27-32, 35-44, 47-52, 55-66, 69, 74, or the
9 amino acid sequence encoded by a cDNA of a clone deposited as ATCC 207219,
10 207184, 207228, 207185, 207220, or 207221, or a complement thereof.

1 3. The nucleic acid molecule of claim 1, further comprising vector
2 nucleic acid sequences.

1 4. The nucleic acid molecule of claim 1 further comprising nucleic acid
2 sequences encoding a heterologous polypeptide.

1 5. A host cell which contains the nucleic acid molecule of claim 1.

1 6. The host cell of claim 5 which is a mammalian host cell.

1 7. A non-human mammalian host cell containing the nucleic acid
2 molecule of claim 1.

1 8. An isolated polypeptide selected from the group consisting of:

2 a) a fragment of a polypeptide comprising the amino acid sequence of SEQ ID
3 NO: 3-8, 11-16, 19-24, 27-32, 35-44, 47-52, 55-66, 69, 74, or the amino acid sequence
4 encoded by a cDNA of a clone deposited as ATCC 207219, 207184, 207228, 207185,
5 207220, or 207221, wherein the fragment comprises at least 8 contiguous amino acids
6 of SEQ ID NO: 3-8, 11-16, 19-24, 27-32, 35-44, 47-52, 55-66, 69, 74, or the amino
7 acid sequence encoded by a cDNA of a clone deposited as ATCC 207219, 207184,
8 207228, 207185, 207220, or 207221;

9 b) a naturally occurring allelic variant of a polypeptide comprising the amino
10 acid sequence of SEQ ID NO: 3-8, 11-16, 19-24, 27-32, 35-44, 47-52, 55-66, 69, 74, or
11 the amino acid sequence encoded by a cDNA of a clone deposited as ATCC 207219,
12 207184, 207228, 207185, 207220, or 207221, wherein the polypeptide is encoded by a
13 nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the
14 nucleotide sequence of SEQ ID NO: 1, 2, 9, 10, 17, 18, 25, 26, 33, 34, 45, 46, 53, 54,
15 67, 68, 72, 73, or the nucleotide sequence of a cDNA of a clone deposited as ATCC
16 207219, 207184, 207228, 207185, 207220, or 207221, or a complement thereof under
17 stringent conditions; and

18 c) a polypeptide which is encoded by a nucleic acid molecule comprising a
19 nucleotide sequence which is at least 40% identical to a nucleic acid consisting of the
20 nucleotide sequence of SEQ ID NO: 1, 2, 9, 10, 17, 18, 25, 26, 33, 34, 45, 46, 53, 54,
21 67, 68, 72, 73, or the nucleotide sequence of a cDNA of a clone deposited as ATCC
22 207219, 207184, 207228, 207185, 207220, or 207221, or a complement thereof.

1 9. The isolated polypeptide of claim 8 having the amino acid sequence
2 of SEQ ID NO: 3-8, 11-16, 19-24, 27-32, 35-44, 47-52, 55-66, 69, 74, or the amino

3 acid sequence encoded by a cDNA of a clone deposited as ATCC 207219, 207184,
4 207228, 207185, 207220, or 207221, or a complement thereof.

1 10. The polypeptide of claim 8, wherein the amino acid sequence of the
2 polypeptide further comprises heterologous amino acid residues.

1 11. An antibody which selectively binds to the polypeptide of claim 8.

1 12. A method for producing a polypeptide selected from the group
2 consisting of:

3 a) a polypeptide comprising the amino acid sequence of SEQ ID NO: 3-8, 11-
4 16, 19-24, 27-32, 35-44, 47-52, 55-66, 69, 74, or the amino acid sequence encoded by a
5 cDNA of a clone deposited as ATCC 207219, 207184, 207228, 207185, 207220, or
6 207221, or a complement thereof;

7 b) a polypeptide comprising a fragment of the amino acid sequence of SEQ ID
8 NO: 3-8, 11-16, 19-24, 27-32, 35-44, 47-52, 55-66, 69, 74, or the amino acid sequence
9 encoded by a cDNA of a clone deposited as ATCC 207219, 207184, 207228, 207185,
10 207220, or 207221, or a complement thereof, wherein the fragment comprises at least 8
11 contiguous amino acids of SEQ ID NO: 3-8, 11-16, 19-24, 27-32, 35-44, 47-52, 55-66,
12 69, 74, or the amino acid sequence encoded by a cDNA of a clone deposited as ATCC
13 207219, 207184, 207228, 207185, 207220, or 207221, or a complement thereof; and

14 c) a naturally occurring allelic variant of a polypeptide comprising the amino
15 acid sequence of SEQ ID NO: 3-8, 11-16, 19-24, 27-32, 35-44, 47-52, 55-66, 69, 74, or
16 the amino acid sequence encoded by a cDNA of a clone deposited as ATCC 207219,
17 207184, 207228, 207185, 207220, or 207221, or a complement thereof, wherein the
18 polypeptide is encoded by a nucleic acid molecule which hybridizes to a nucleic acid
19 molecule consisting of the nucleotide sequence of SEQ ID NO: 1, 2, 9, 10, 17, 18, 25,
20 26, 33, 34, 45, 46, 53, 54, 67, 68, 72, 73, or the nucleotide sequence of a cDNA of a

21 clone deposited as ATCC 207219, 207184, 207228, 207185, 207220, or 207221, or a
22 complement thereof under stringent conditions;

23 the method comprising culturing the host cell of claim 5 under conditions in
24 which the nucleic acid molecule is expressed.

1 13. A method for detecting the presence of a polypeptide of claim 8 in a
2 sample, comprising:

- 3 a) contacting the sample with a compound which selectively binds to a
4 polypeptide of claim 8; and
5 b) determining whether the compound binds to the polypeptide in the sample.

1 14. The method of claim 13, wherein the compound which binds to the
2 polypeptide is an antibody.

1 15. A kit comprising a compound which selectively binds to a
2 polypeptide of claim 8 and instructions for use.

1 16. A method for detecting the presence of a nucleic acid molecule of
2 claim 1 in a sample, comprising the steps of:

- 3 a) contacting the sample with a nucleic acid probe or primer which selectively
4 hybridizes to the nucleic acid molecule; and
5 b) determining whether the nucleic acid probe or primer binds to a nucleic acid
6 molecule in the sample.

1 17. The method of claim 16, wherein the sample comprises mRNA
2 molecules and is contacted with a nucleic acid probe.

1 18. A kit comprising a compound which selectively hybridizes to a
2 nucleic acid molecule of claim 1 and instructions for use.

3 19. A method for identifying a compound which binds to a polypeptide
4 of claim 8 comprising the steps of:

- 5 a) contacting a polypeptide, or a cell expressing a polypeptide of claim 8 with a
6 test compound; and
7 b) determining whether the polypeptide binds to the test compound.

1 20. The method of claim 19, wherein the binding of the test compound
2 to the polypeptide is detected by a method selected from the group consisting of:

- 3 a) detection of binding by direct detecting of test compound/polypeptide
4 binding;
5 b) detection of binding using a competition binding assay;
6 c) detection of binding using an assay for an activity characteristic of the
7 polypeptide.

1 21. A method for modulating the activity of a polypeptide of claim 8
2 comprising contacting a polypeptide or a cell expressing a polypeptide of claim 8 with
3 a compound which binds to the polypeptide in a sufficient concentration to modulate
4 the activity of the polypeptide.

1 22. A method for identifying a compound which modulates the activity
2 of a polypeptide of claim 8, comprising:

- 3 a) contacting a polypeptide of claim 8 with a test compound; and
4 b) determining the effect of the test compound on the activity of the
5 polypeptide to thereby identify a compound which modulates the activity of the
6 polypeptide.

1 23. An antibody substance which selectively binds to the polypeptide of
2 claim 8, wherein the antibody substance is made by providing the polypeptide to an

3 immunocompetent vertebrate and thereafter harvesting blood or serum from the
4 vertebrate.

add a_3

Add B^2, B^3

add D16

continued